

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A heat exchanger, comprising:
a soldered heat exchanger network comprising flat tubes and corrugated ribs
configured so that a liquid and/or gaseous medium can flow through the flat tubes and air can
flow around the corrugated ribs, and
a corrugated rib having at least two rib surfaces which are arranged essentially parallel
to one another and are connected by an arcuate piece joined to a flat tube,
wherein the arcuate piece has a lower curvature in a middle portion than in a first
outer portion and in a second outer portion,
wherein the arcuate piece has in the middle portion a radius of curvature R1 which is
greater than a rib height RH of the corrugated rib.
2. (Previously Presented) The heat exchanger as claim in claim 1, wherein the rib surfaces
include gills, wherein the gills are arranged as louvers.
3. (Canceled)
4. (Previously Presented) The heat exchanger as claimed in claim 1, wherein the arcuate
piece has in the first outer portion a radius of curvature R2 which is lower than half a rib
height RH of the corrugated rib.
5. (Previously Presented) The heat exchanger as claimed in claim 1, wherein the arcuate
piece has in the second outer portion a radius of curvature R3 which is greater than or equal
to a radius of curvature R2 in the first outer portion.
6. (Previously Presented) The heat exchanger as claimed in claim 1, wherein the arcuate
piece has in the second outer portion a radius of curvature R3 which is lower than a rib height
RH of the corrugated rib.

7. (Previously Presented) The heat exchanger as claimed in claim 2, wherein the gills have a gill depth LP in a range of 0.5 to 1.5 mm and a gill angle α in a range of 20° to 35°.
8. (Previously Presented) The heat exchanger as claimed in claim 1, wherein the corrugated rib has a rib division FP in a range of 1 to 3 mm.
9. (Previously Presented) The heat exchanger as claimed in claim 1, wherein the corrugated rib has a rib depth RT in a range of 10 to 70 mm.
10. (Previously Presented) The heat exchanger as claimed in claim 2, wherein a ratio of gill depth LP to rib division FP is in a range of 0.385 to 0.825.
11. (Previously Presented) The heat exchanger as claimed in claim 1, wherein the corrugated rib has a rib height RH in a range of 3 to 15 mm.
12. (Previously Presented) The heat exchanger as claim in claim 1, wherein the arcuate piece is soldered to the flat tube.
13. (Previously Presented) The heat exchanger as claim in claim 9, wherein the rib depth RT is in a range of 12 to 20 mm.
14. (Previously Presented) The heat exchanger as claim in claim 9, wherein the rib depth RT is in a range of 40 to 64 mm.
15. (Previously Presented) The heat exchanger as claim in claim 11, wherein the rib height RH is in a range of 6 to 10 mm.
16. (Previously Presented) The heat exchanger as claim in claim 1, wherein the heat exchanger is a coolant refrigerator or condenser for motor vehicles.

17. (Previously Presented) The heat exchanger as claim in claim 1, wherein the corrugated rib is a flat rib.